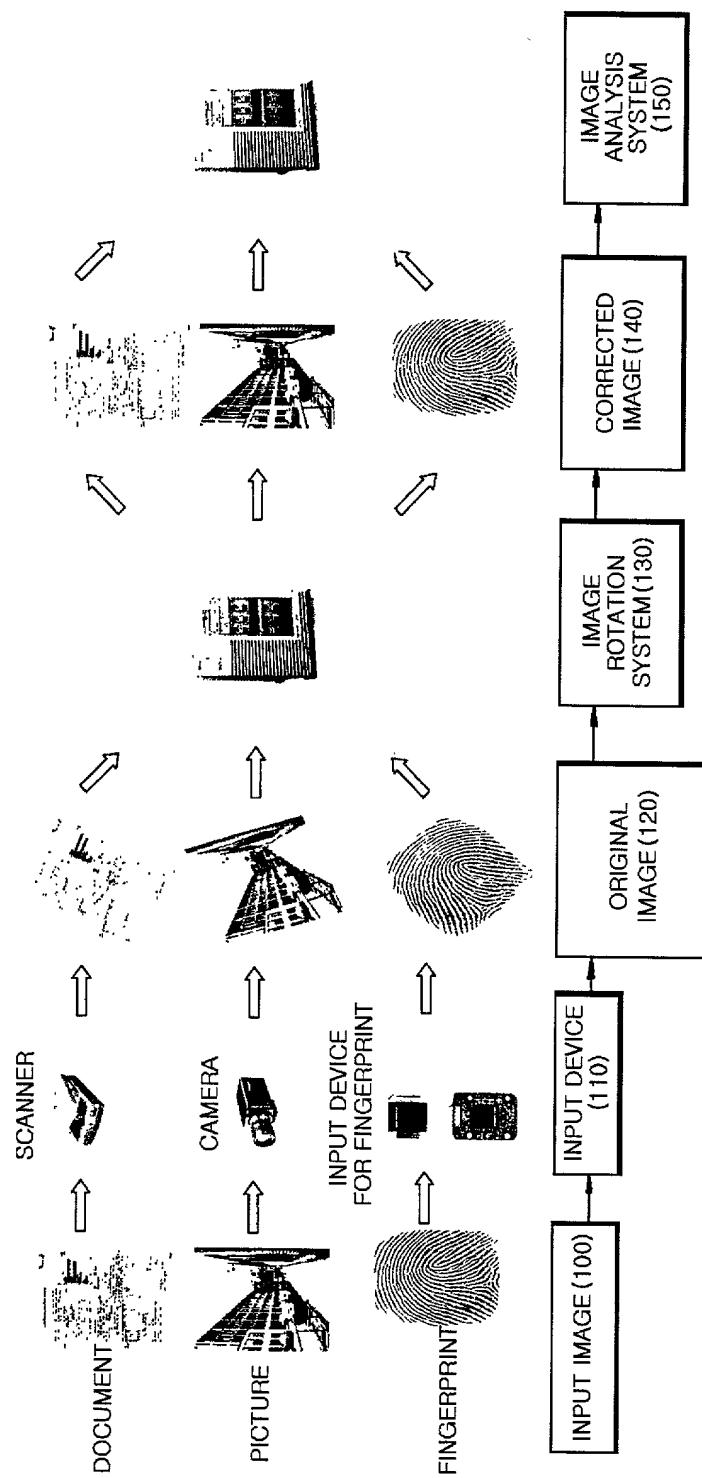


FIG. 1



SYSTEM AND METHOD FOR FAST ROTATION OF BINARY IMAGES USING BLOCK MATCHING METHOD

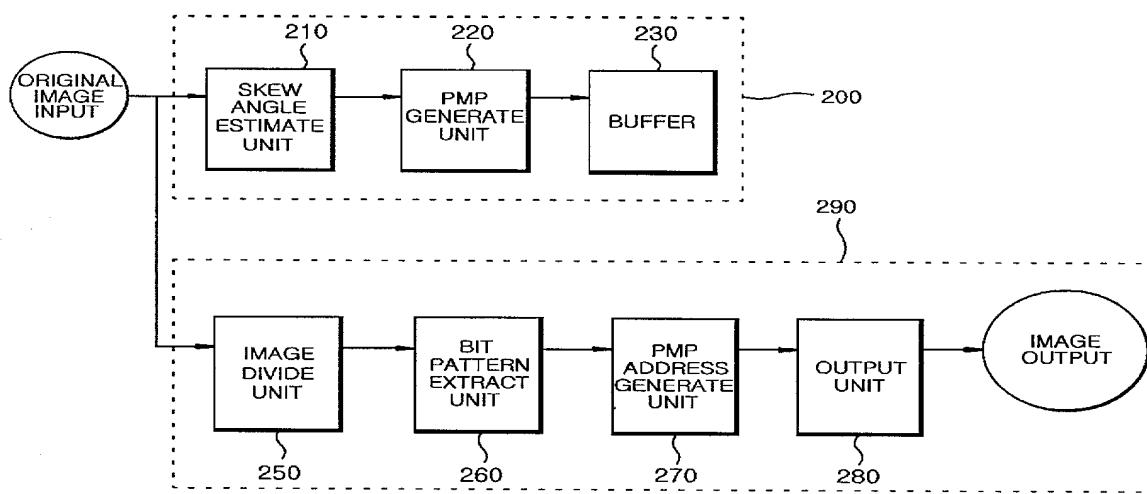
Inventors: Sung II CHIEN et al.

Attorney for Applicants: Harness, Dickey & Pierce, P.L.C.

Attorney Docket No. 3586-000002

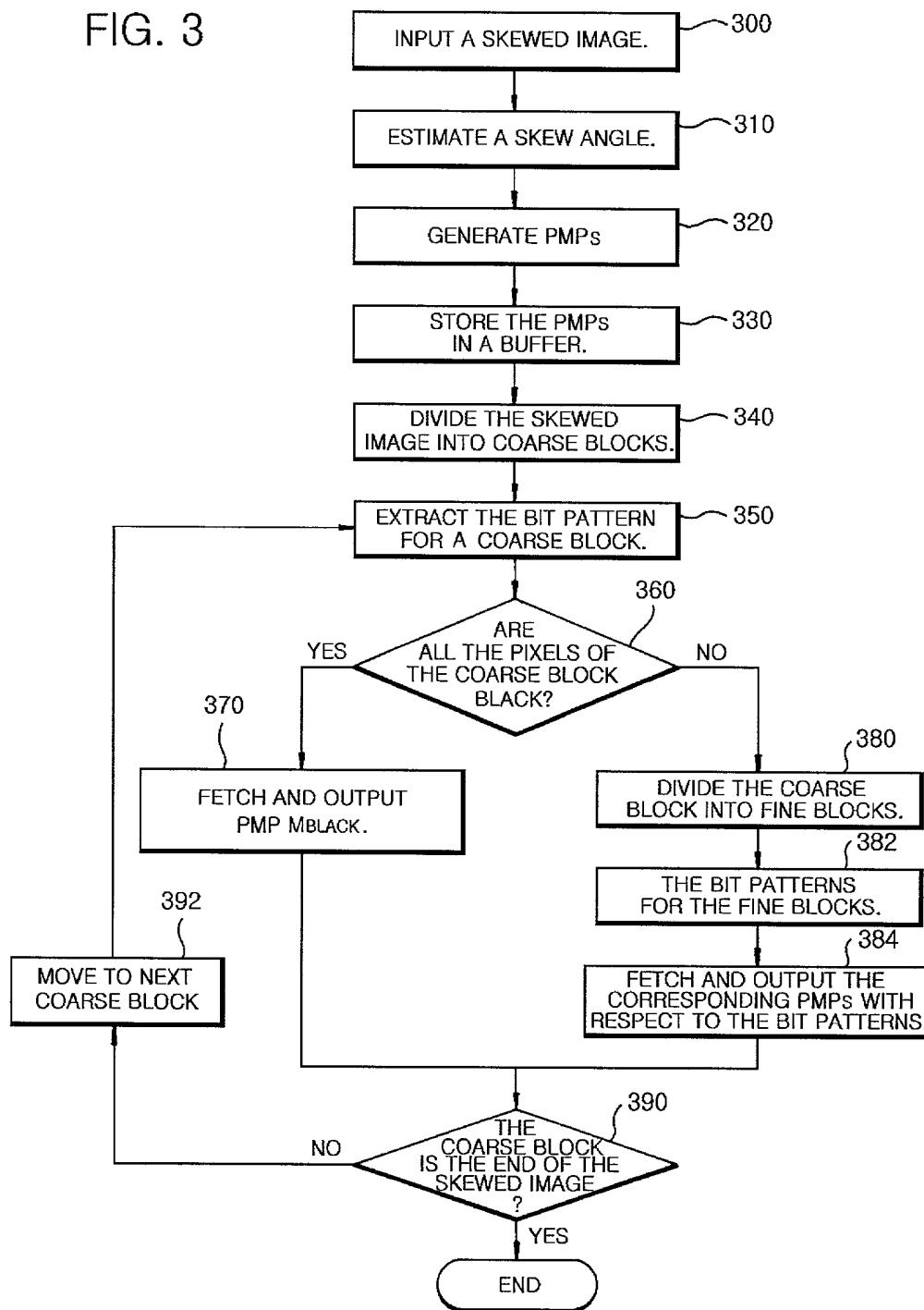
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FIG. 2



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FIG. 3



SYSTEM AND METHOD FOR FAST ROTATION OF BINARY IMAGES USING BLOCK MATCHING METHOD

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Attorney for Applicants: Harness, Dickey & Pierce, P.L.C.

Attorney Docket No. 3586-000002

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FIG. 4

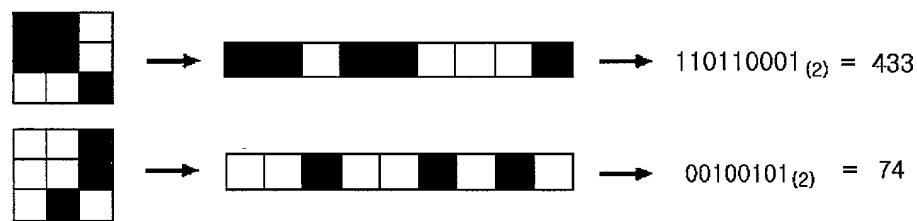
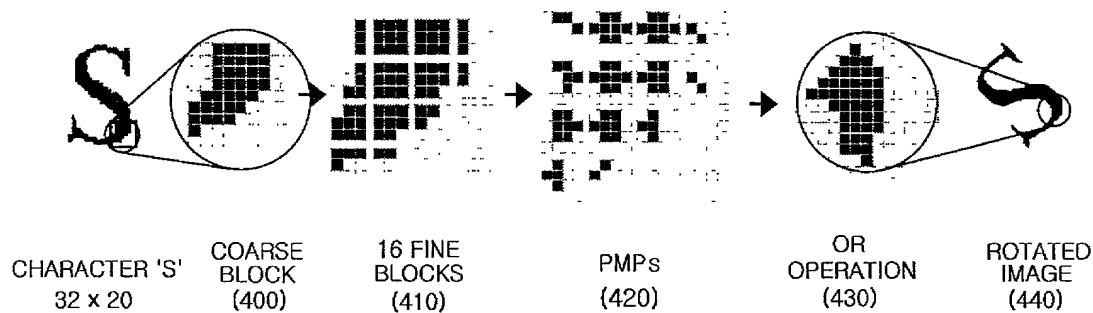
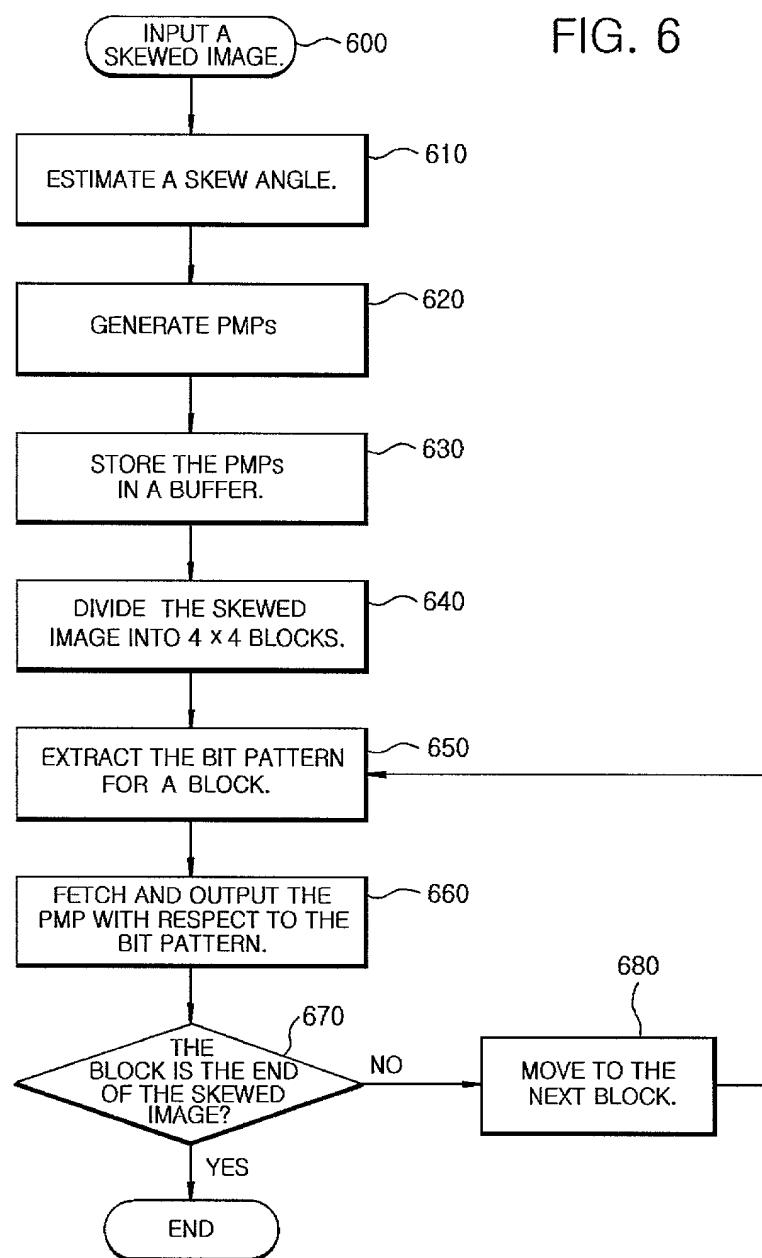


FIG. 5



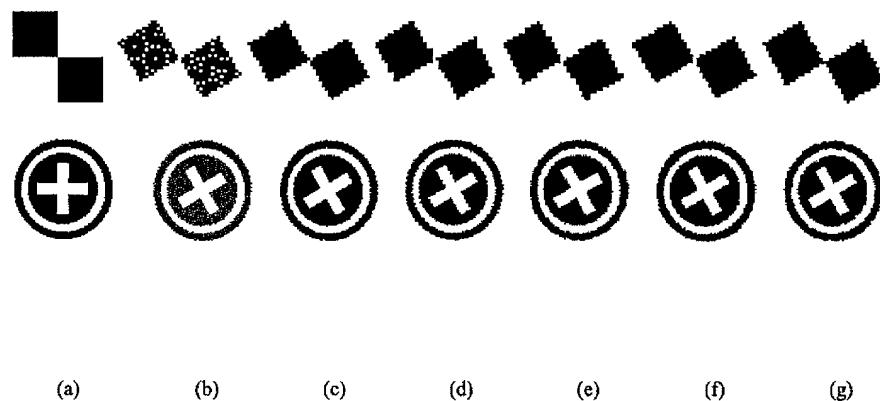
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FIG. 6



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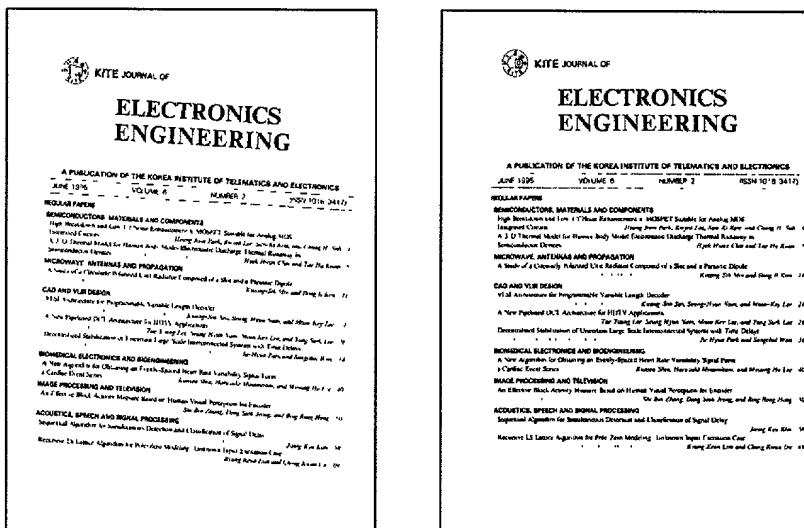
FIG. 7



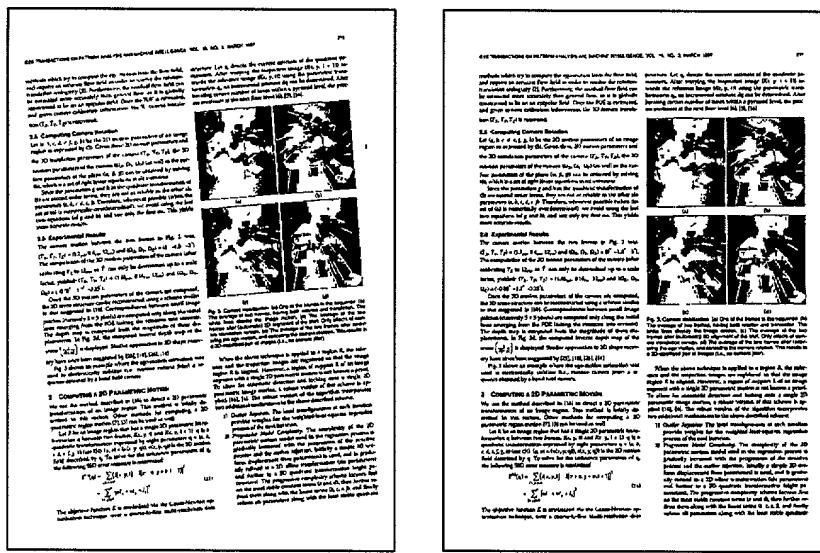
(a) original image, (b) general method, (c) Cheng's method, (d) 3-pass method,

(e) Jiang's method, (f) black run rotation method, and (g) block matching method.

FIG. 8

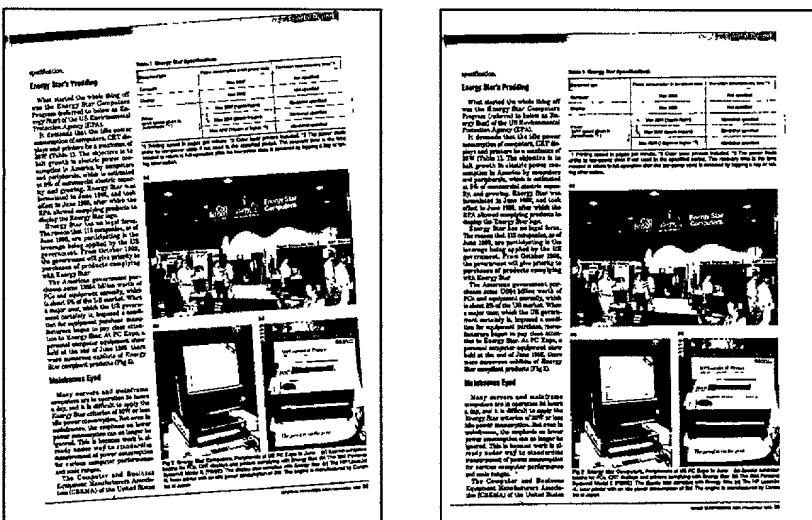


(a)

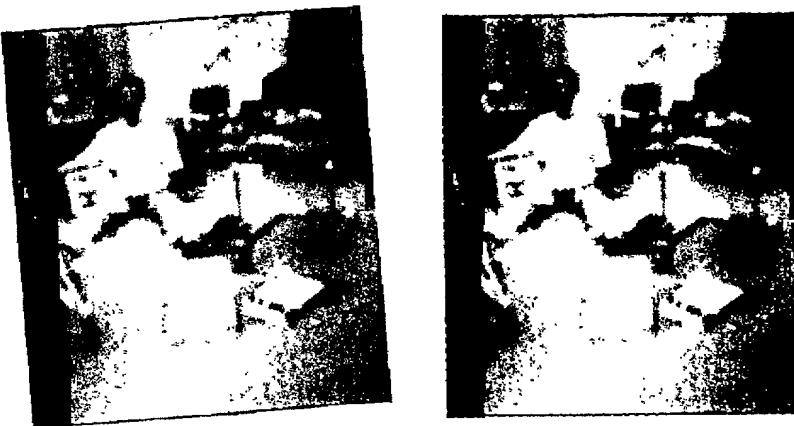


(b)

(CONTINUE)



(c)



(d)

SYSTEM AND METHOD FOR FAST ROTATION OF BINARY IMAGES USING BLOCK MATCHING METHOD

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Attorney for Applicants: Harness, Dickey & Pierce, P.L.C.

Attorney Docket No. 3586-000002

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FIG. 9

TIME(sec)

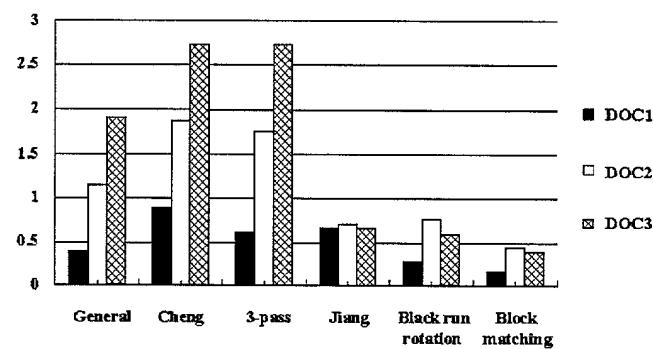


FIG. 10

TIME(sec)

